

CLAIMS

1. Process for the preparation of the facial isomer of tris(8-oxoquinoline)aluminum(III) (Alq_3), comprising the step of heating $\alpha\text{-Alq}_3$ in solid phase at a temperature equal to or higher than 350°C but lower than 420°C , to obtain a mixture of $\gamma\text{-Alq}_3$ and $\delta\text{-Alq}_3$.

2. The process according to claim 1, further comprising a step of suspending said mixture in an organic solvent and keeping said suspension at ambient temperature.

3. The process according to claim 2, wherein said organic solvent is acetone.

4. Process for obtaining a thin film of the facial Alq_3 , comprising the steps of preparation of a solution of facial Alq_3 in a solvent, at a temperature lower than -10°C , application of a thin layer of such solution onto a substrate, and evaporation of the solvent to obtain a thin film.

5. The process according to claim 3, wherein said solvent is CHCl_3 .

6. Process for obtaining a thin film of facial Alq_3 , comprising the step of heating a thin film of meridional Alq_3 at a temperature in the range from 390 to 420°C .

7. Blue emitting electroluminescent device based on facial Alq_3 .

8. Use of facial Alq_3 for making electroactive devices suitable for charge transport and/or recombination and/or for light emission.